SUMMER 2006 OBJECT ORIENTED PROGRAMMING INSTITUTE

MATC-MADISON IN COLLABERATION WITH CENTER FOR SYSTEMS SECURITY AND INFORMATION ASSURANCE

The Object Oriented Programming Institute will provide intense "jump-start" for instructors and professionals wishing to learn Object Oriented programming in Visual Studio.NET 2005 or Ruby on Rails Development environments.

Pre-admission Skills

Students enrolled in the OO Programming Institute should have experience in the use of relational database and Structured Query Language (SQL) using selects and joins. The student is also expected to have experience or coursework in programming (e.g. COBOL, RPG, Visual Basic, or an equivalent).

This training provides hands-on training in designing, planning, and executing a vulnerability assessment on a computer network.

- Training provided at MATC/ McAllen Networking Center – 1802 Wright Street – Madison, WI
- 3 classes offered over 2 weeks – attendees can sign up for any combination of two classes or only one class.
- Registration fee is $500 per week and includes lunch, textbooks, and all materials required for the class
- Reduced registration fees for college and high school faculty (up to $250 per week discount - contact MATC staff for details)
- Registration priority is given to WTCS faculty.

Instructors trained at the OO Programming Institute will take home:

- All curriculum materials available for faculty to use at their schools.
- Graduate credit (2 credits per week) is available for instructors. Graduate tuition not included in OO Institute tuition.
  Contact Ken McCullough (see below) for details.

Visual Basic.NET 2005 Programming for Teachers – Instructor, Bryan Witkowski　　　　　　　　　**July 10-14**

This 5 day course is the upgraded version (Visual Studio 2005) of Developing and Implementing Windows®-based Applications with Microsoft Visual Basic .NET© and Microsoft Visual Studio .NET exam (70-306). This course will provide the student with a focused, hands-on environment to experience the new features and functionality of the Microsoft® Visual Studio® 2005 product related to building Windows Forms applications including special consideration of best practices for Windows®-based application security. Students learn to create enterprise applications for the .NET platform in general as well as the specifics of the Visual Basic.NET programming environment. No previous experience in Visual Basic programming is required.

Web Development Using ASP.NET for Teachers - Instructor, Bryan Witkowski　　　　　　　　　**July 17-21**

This 5 day course gives developers the skills needed to pass the Developing and Implementing Web Applications with Microsoft Visual Basic® .NET and Microsoft Visual Studio® .NET exam (70-305). This course will provide the student with a focused, hands-on environment to experience the new features and functionality of the Microsoft® Visual Studio® 2005 product related to building Web Applications with ASP.NET 2.0. As part of the class, students will work with the new membership features, implement master pages, themes and skins, create a web form with server controls, display dynamic data from a database using Microsoft ADO.NET©, learn best practices for security in .NET web applications and learn to debug ASP.NET web pages. Prerequisite: Visual Basic.NET© Programming or equivalent experience.

Ruby on Rails Development for Teachers - Instructor, Eric Knapp　　　　　　　　　**July 10-14**

This course introduces the student to dynamic web page development using the Ruby on Rails web development framework. The course will also use the popular MySQL open source database management system. Topics will include an introduction to the Ruby programming language, installing Ruby and Ruby on Rails, an overview of the Rails Framework, ActiveRecord basics, ActionController coding, Action Views, AJAX and the Web 2.0, ActionMailer basics, security, deployment, and scaling. Students will produce a very modern web application that can be adapted to many professional web development needs.

	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
July		10	11	12	13	14	
		Visual Basic.NET Programming for Teachers					
		Ruby on Rails Development for Teachers					
July		17	18	19	20	21	
		Web Development Using ASP.NET for Teachers					

- **Registration & requests for information now being accepted. Register online at** http://www.cssia.org/fac_lcourses.cfm
- **Contact: CSSIA 2006 Summer Object Oriented Programming Institute, c/o Ken McCullough; MATC-Madison 3550 Anderson Street/Madison, WI 53704   (608) 246-6658 – e-mail: kmccullough@matcmadison.edu**